

ABSTRACT

It is intended to secure a sufficient torque load capacity, to maintain constant velocity property, and to simplify the assembling of various components.

A fixed type constant velocity joint comprising a cylindrical joint outer ring having an inner spherical surface formed with a plurality of circumferentially equispaced axially extending track grooves, a joint inner ring having an outer spherical surface formed with a plurality of circumferentially equispaced axially extending track grooves, a plurality of balls disposed in ball tracks defined by cooperation between the track grooves in the joint outer and inner rings, a cage for holding the balls disposed in the ball tracks, and a stem shaft located rearwardly of the joint inner ring for axially supporting the joint inner ring, wherein the rear open end of the joint outer ring has an inner diameter larger than the outer diameter of the joint inner ring, and the inner diameter surface of the cage is such that the region located forwardly of the axial center is an inner spherical surface having a shape capable of controlling the forward movement of the joint inner ring while the region located rearwardly thereof is an inner cylindrical surface having a shape capable of allowing the axial movement of the joint inner ring.